

**Fig. 1A**

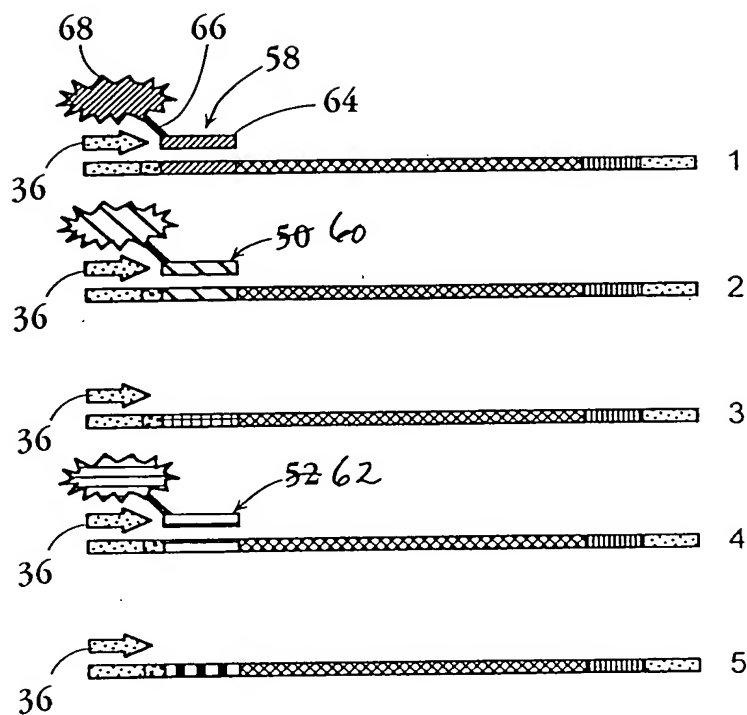


Fig. 1B

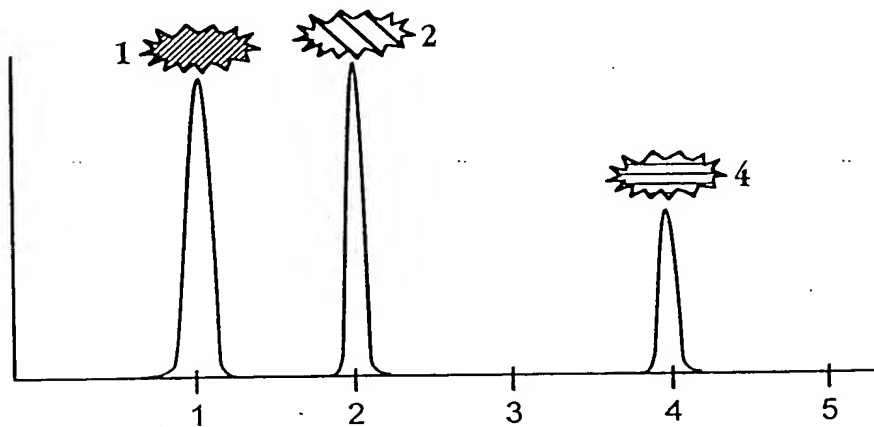
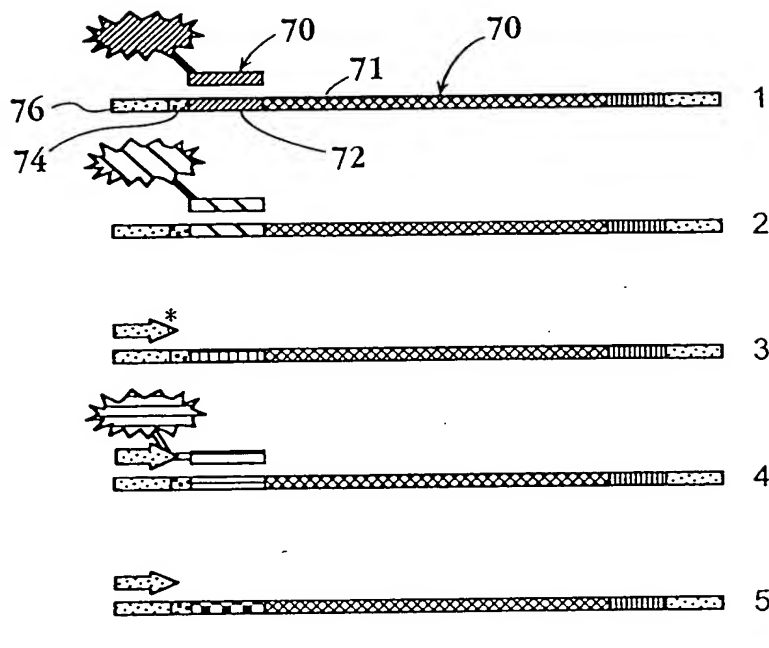
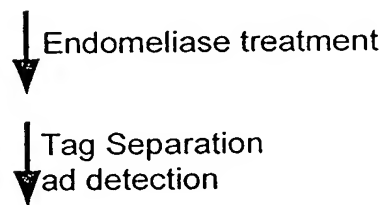


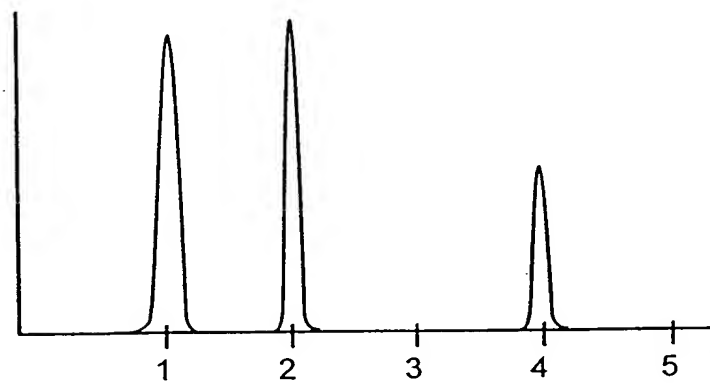
Fig. 1C



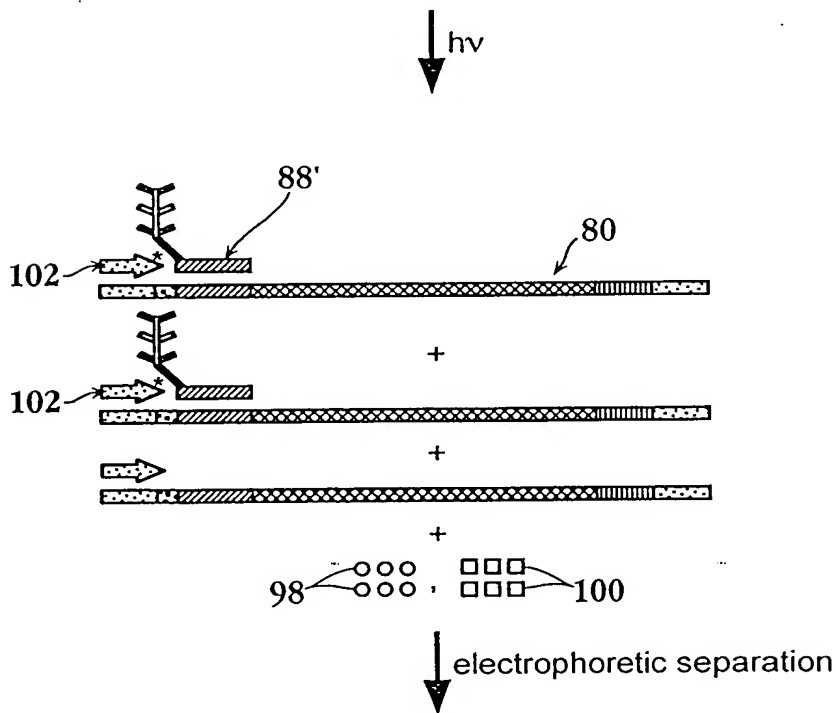
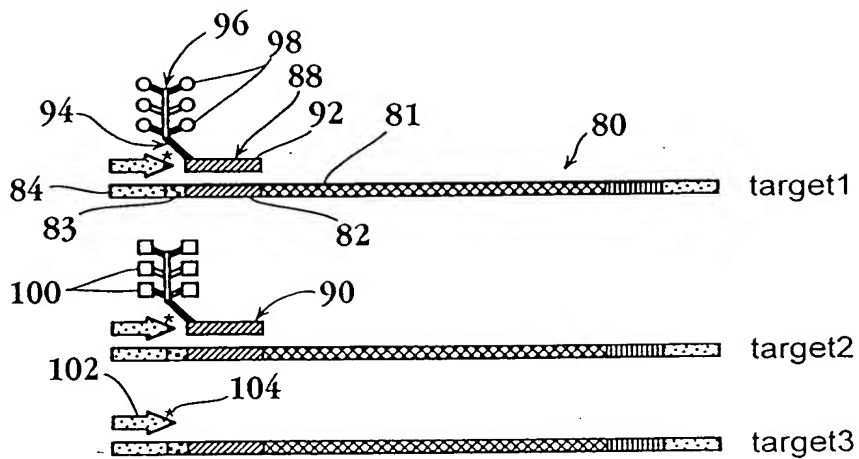
**Fig. 2A**

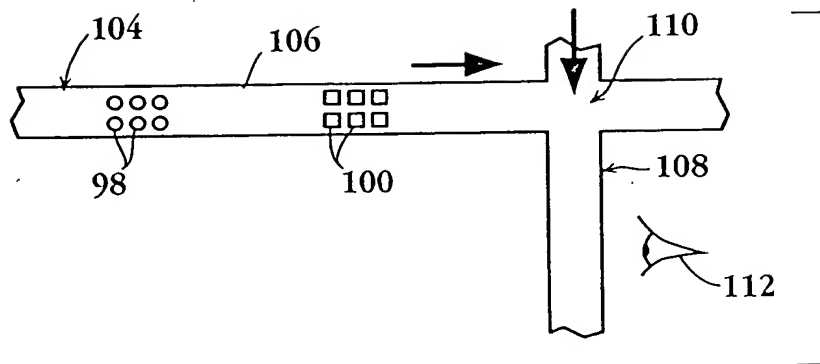


**Fig. 2B**



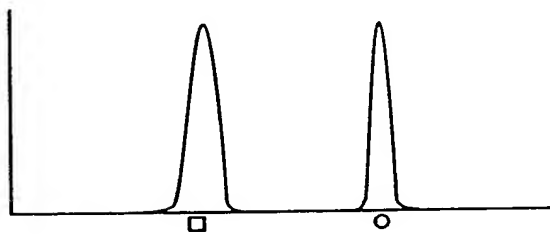
**Fig. 2C**



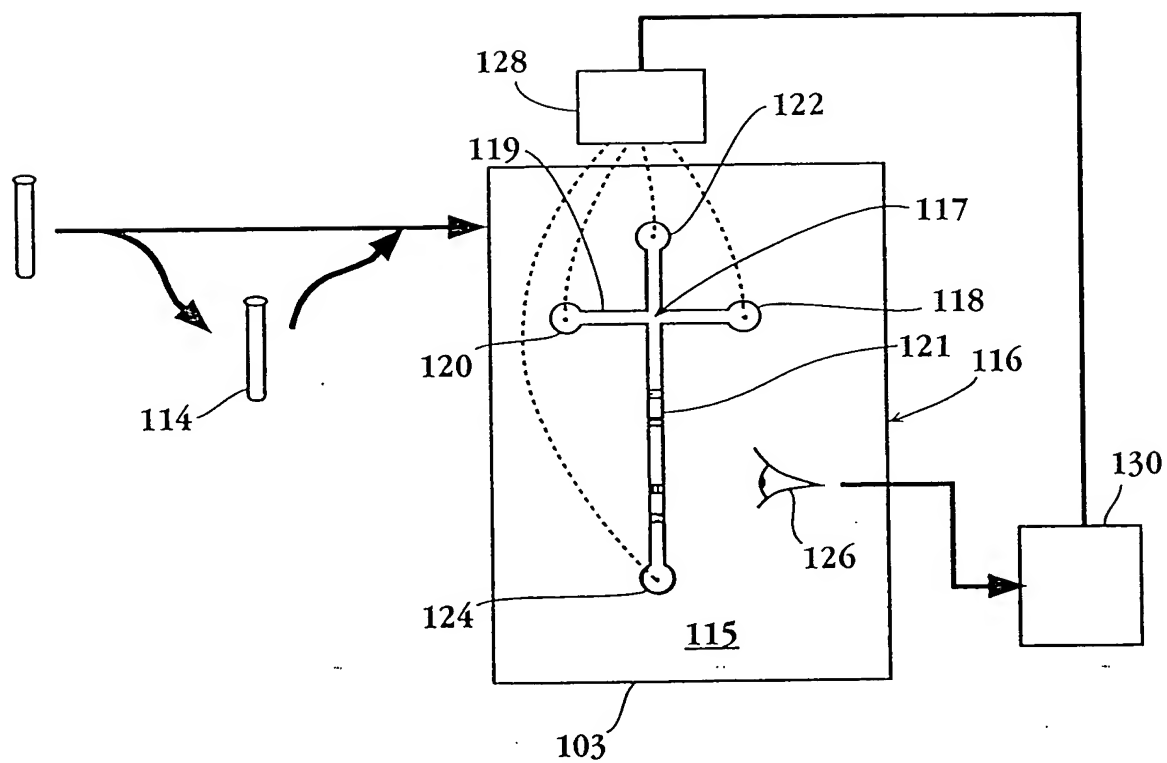


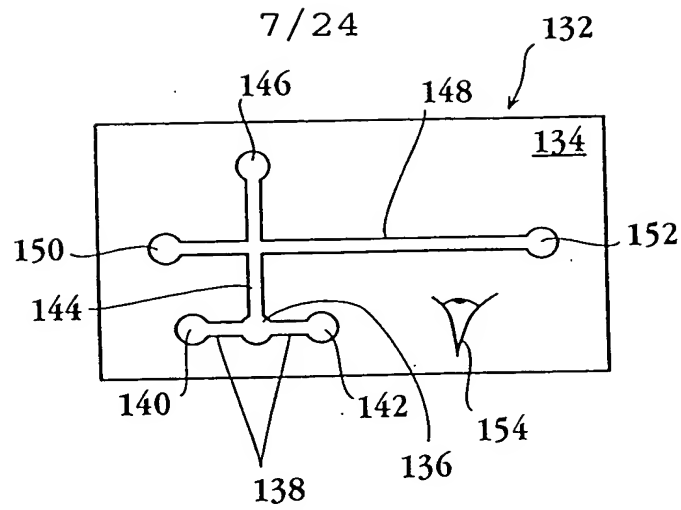
**Fig. 3C**

↓ catalytic reaction detection

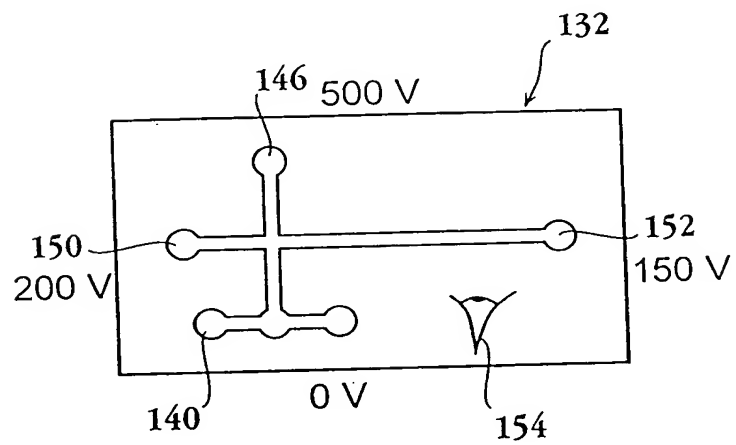


**Fig. 3D**

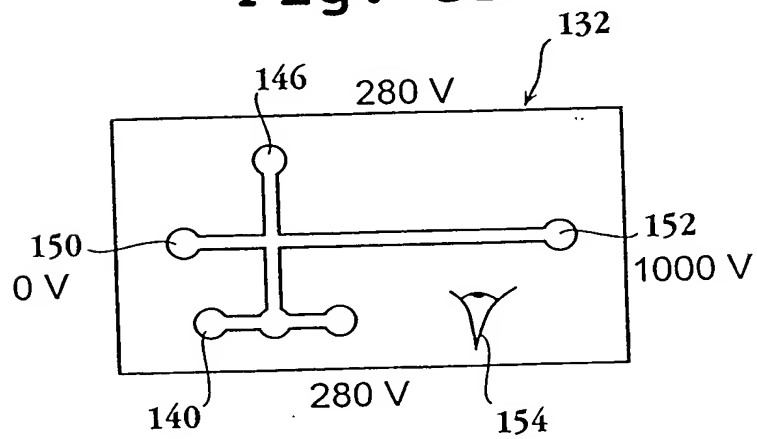
**Fig. 4**



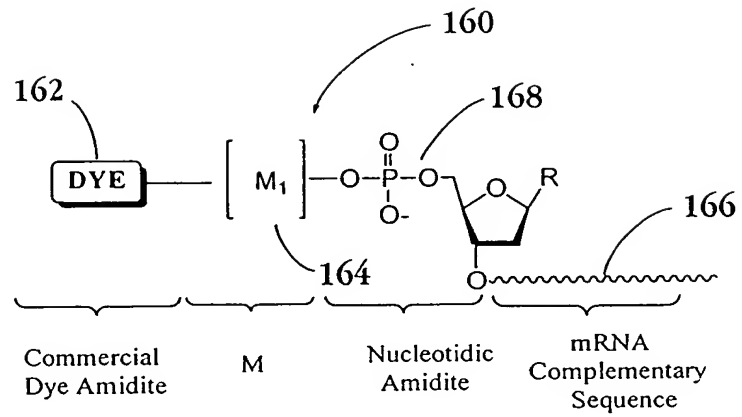
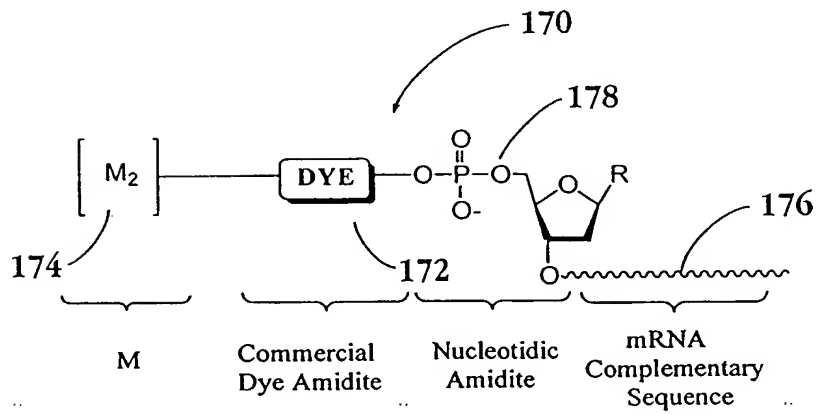
**Fig. 5A**



**Fig. 5B**



**Fig. 5C**

**Fig. 6****Fig. 7**

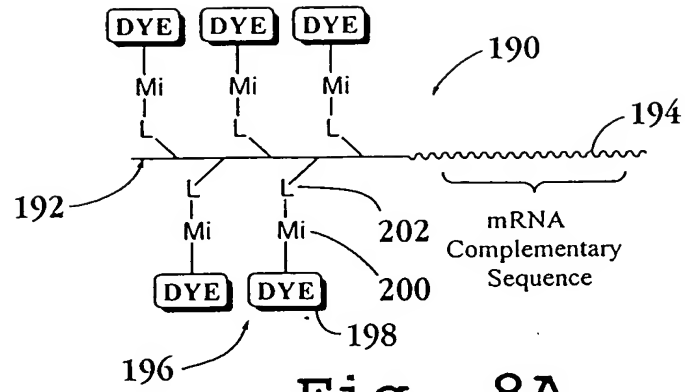


Fig. 8A

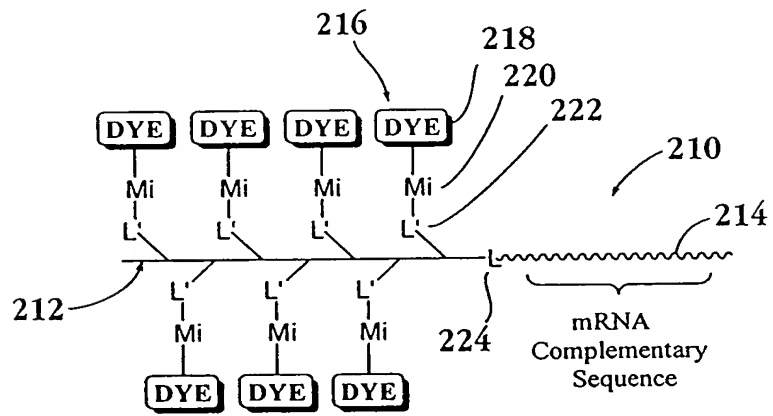
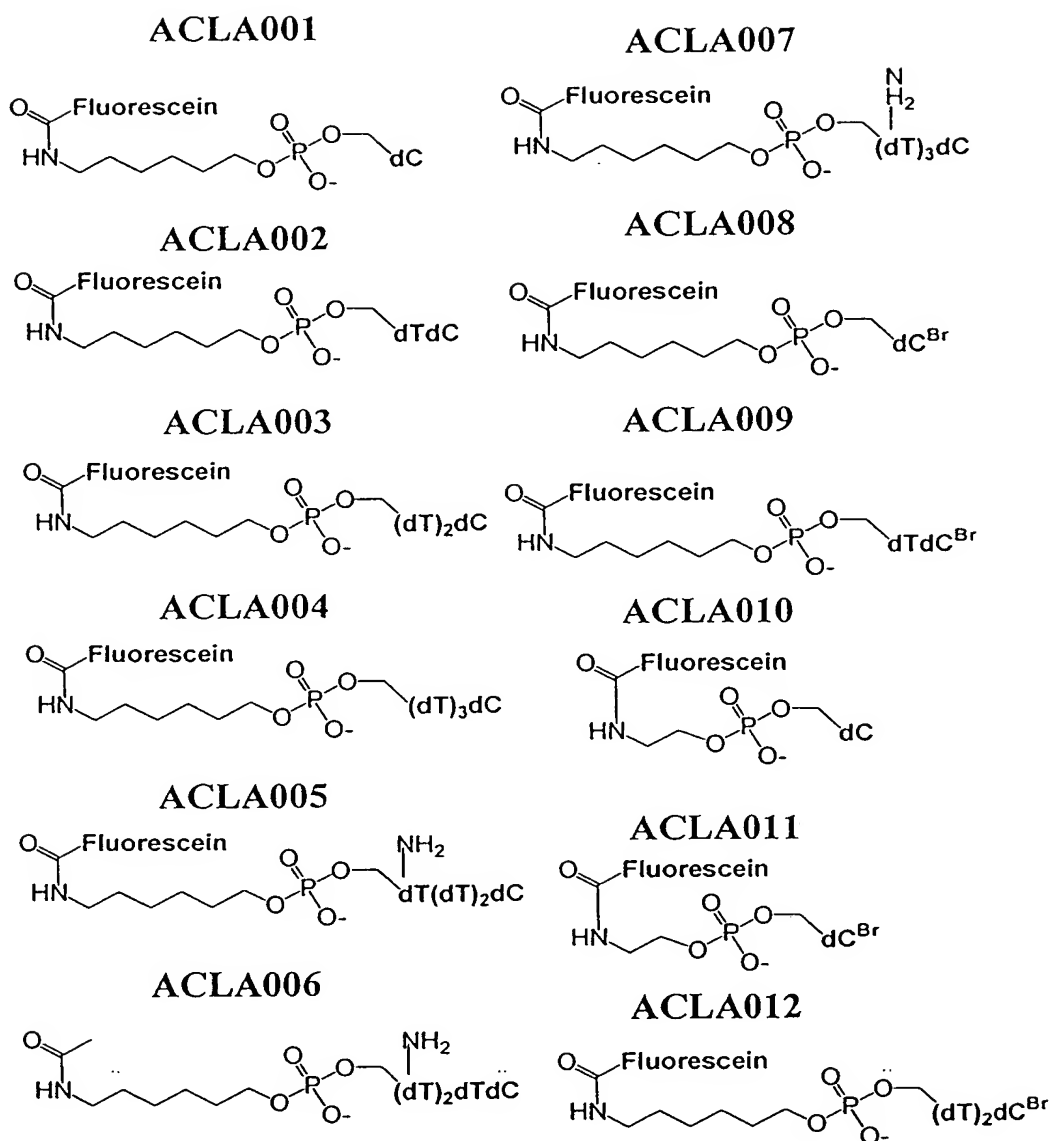
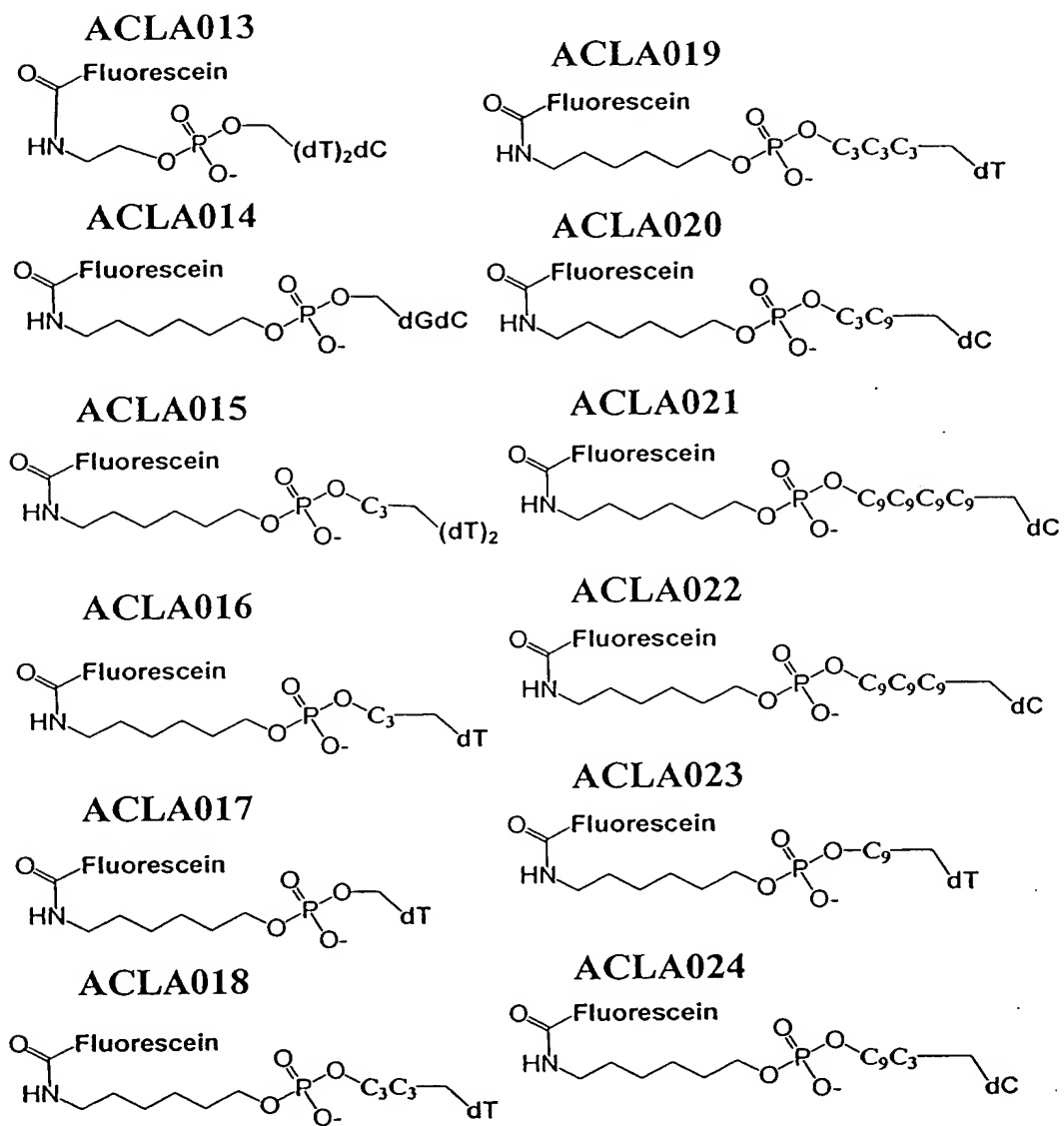


Fig. 8B

**Fig. 9A**

**Fig. 9B**

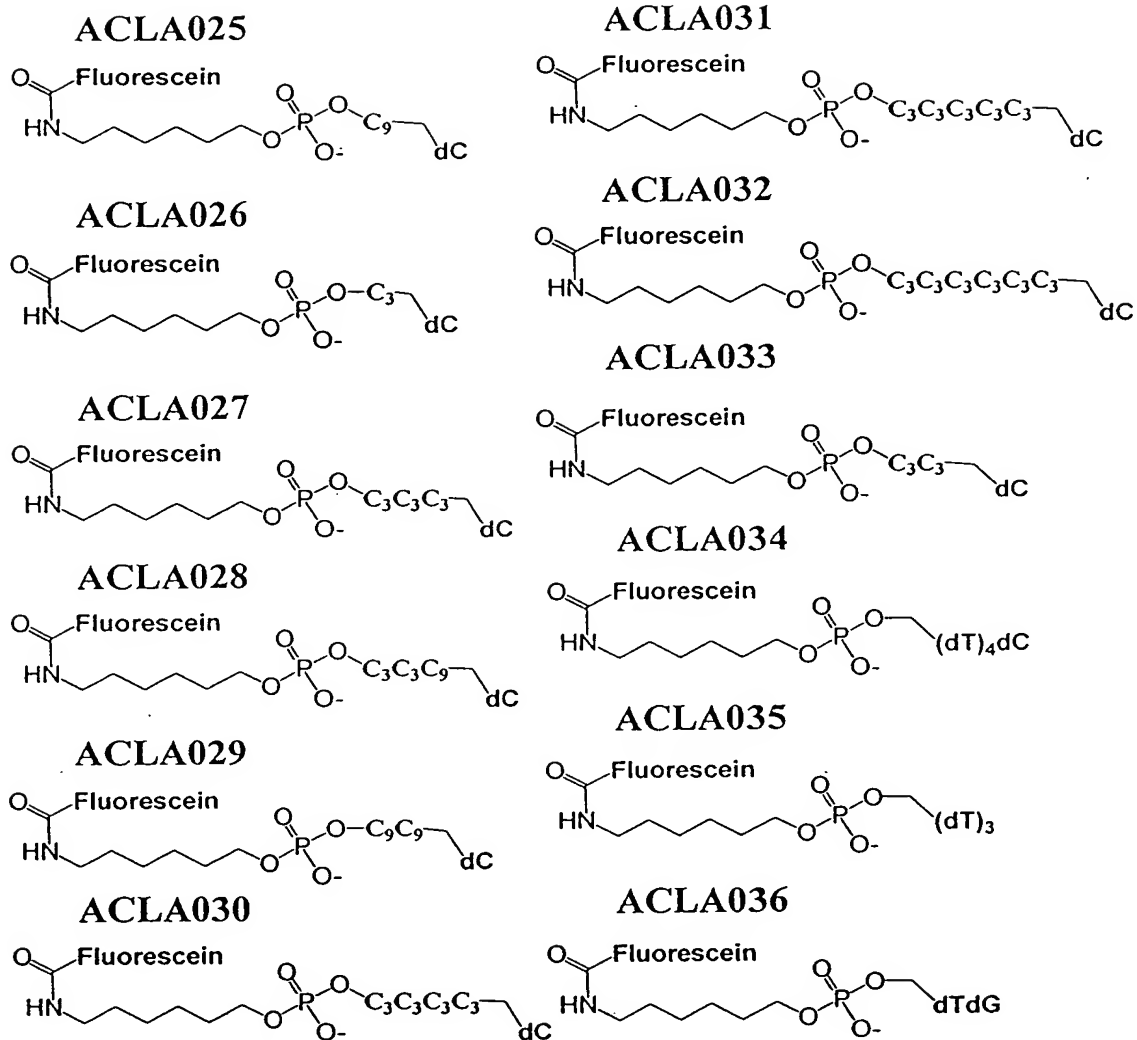


Fig. 9C

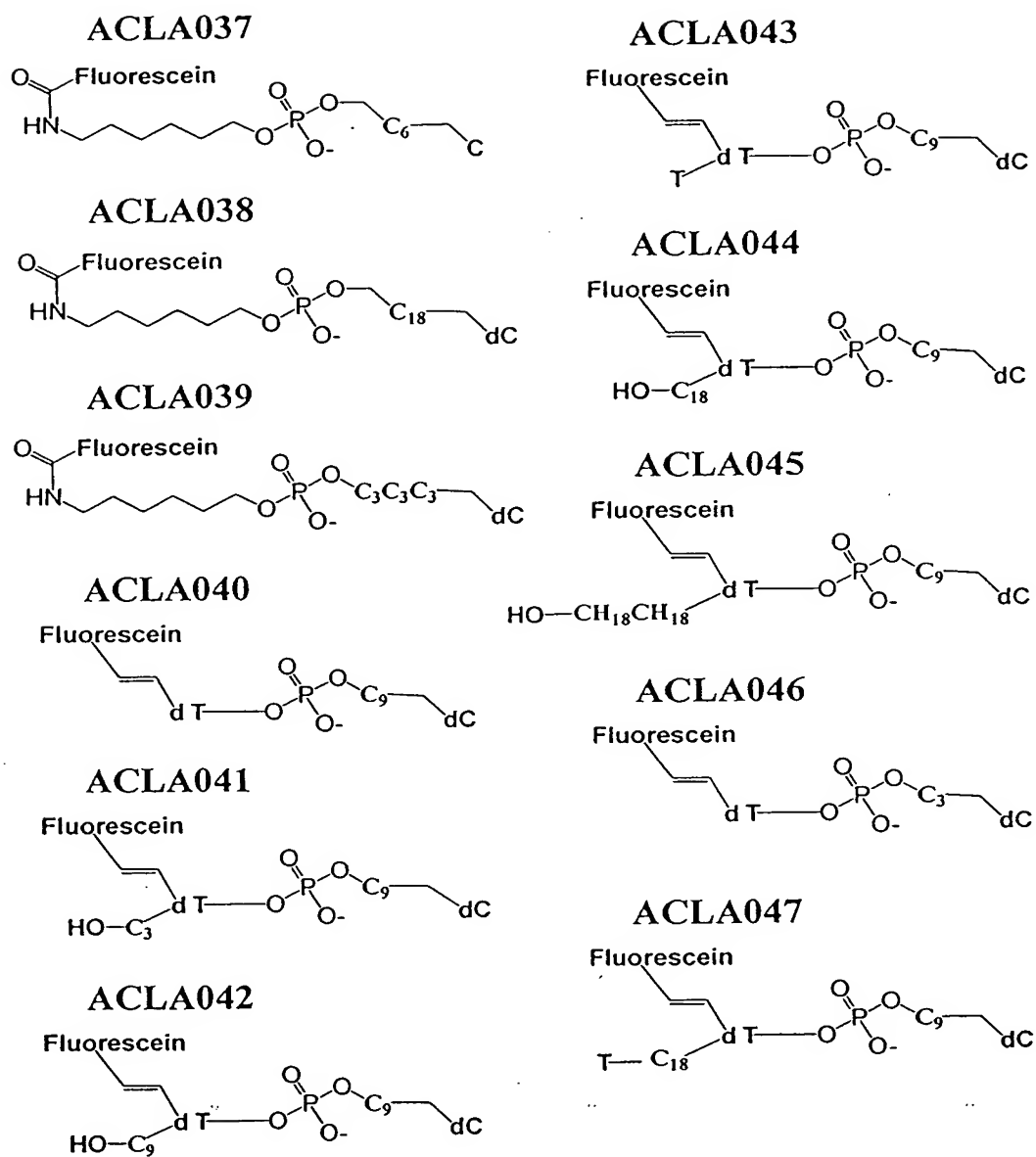


Fig. 9D

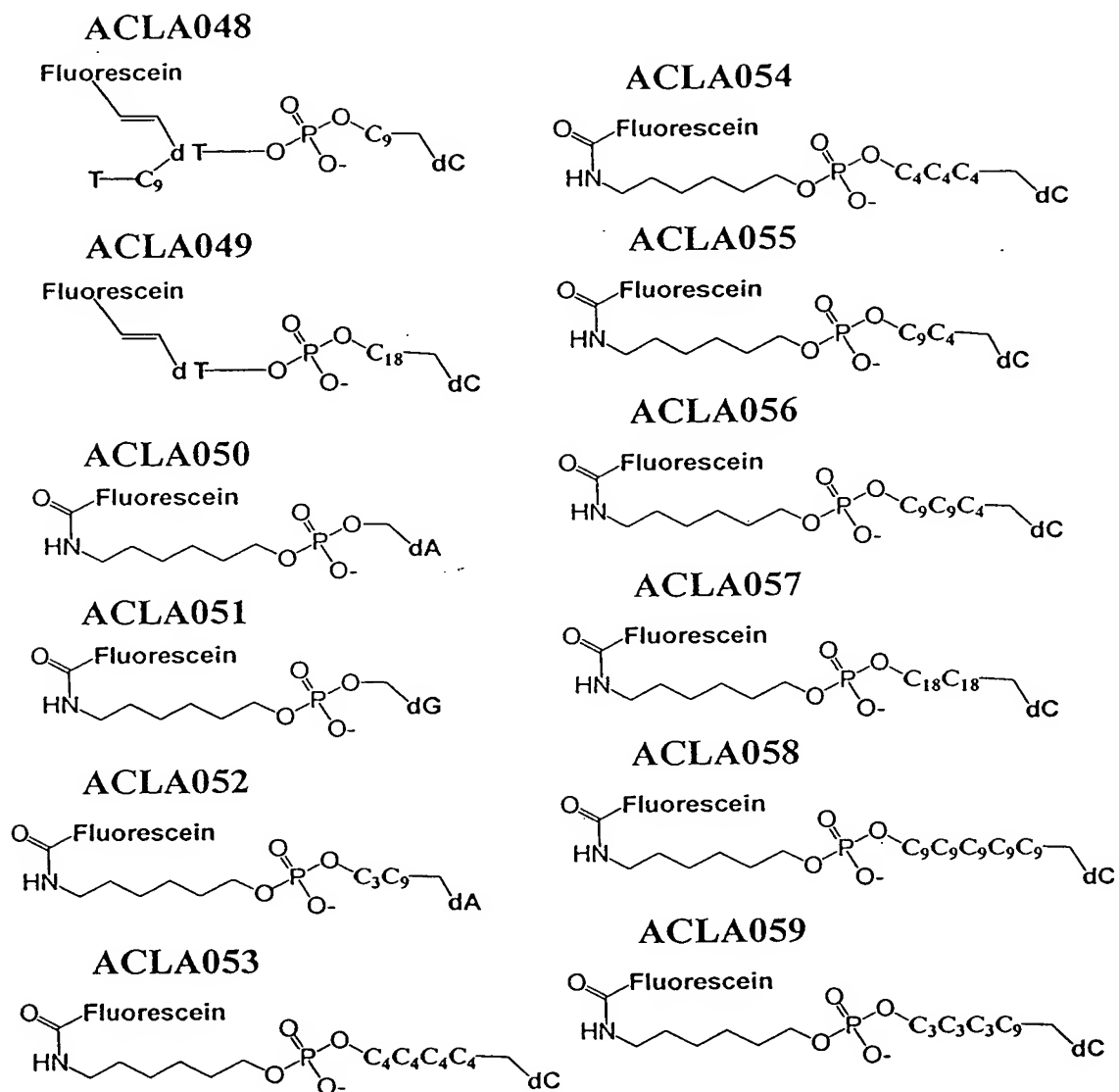
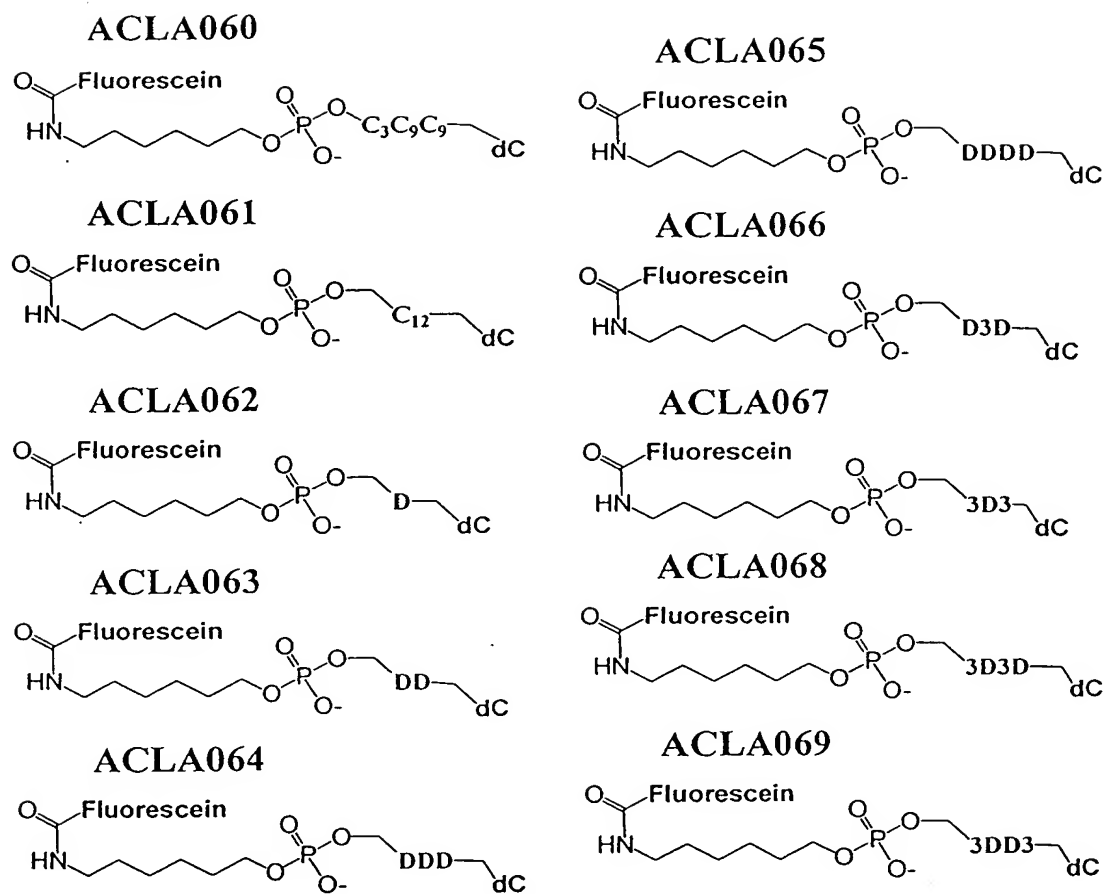
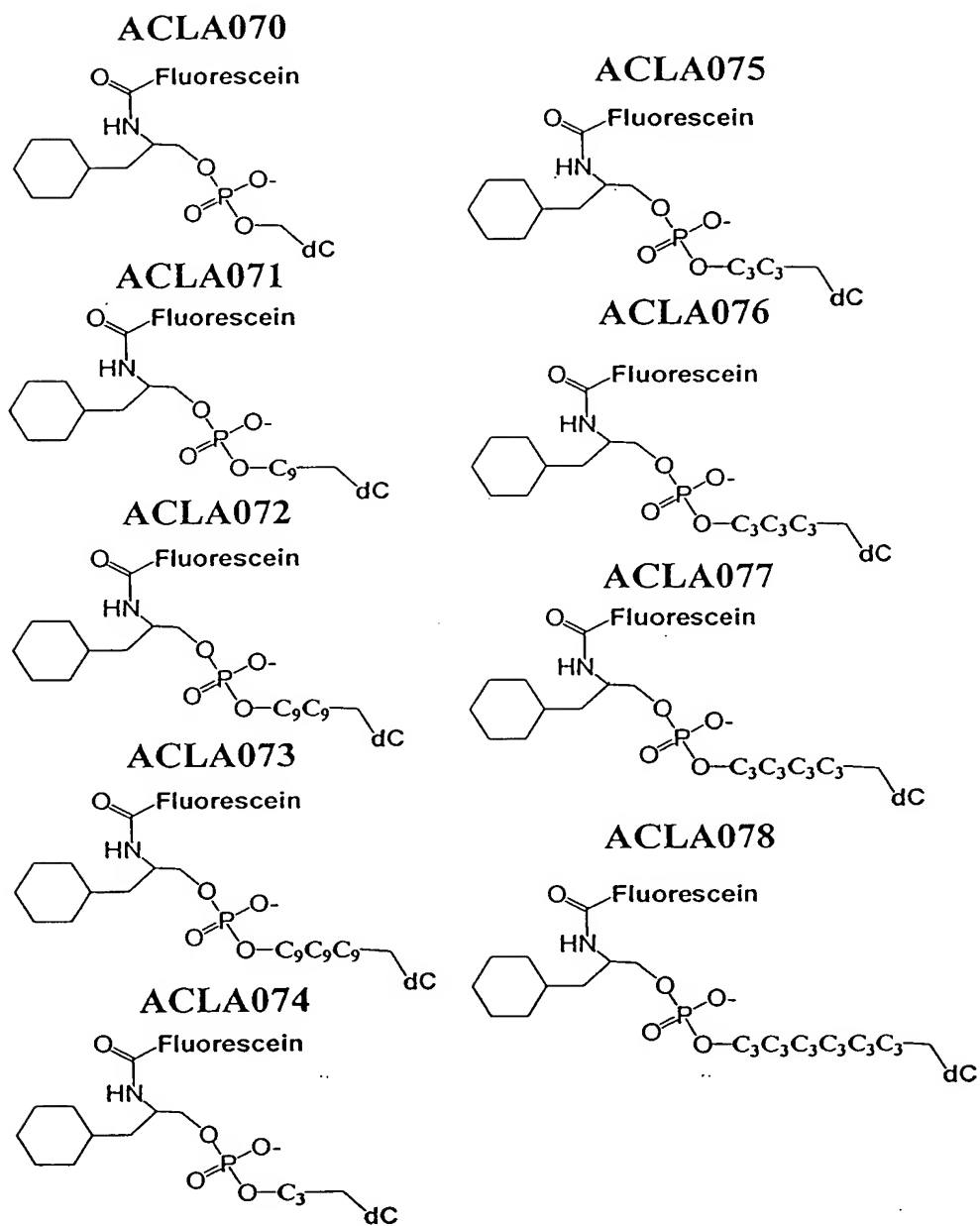


Fig. 9E

**Fig. 9F**

**Fig. 9G**

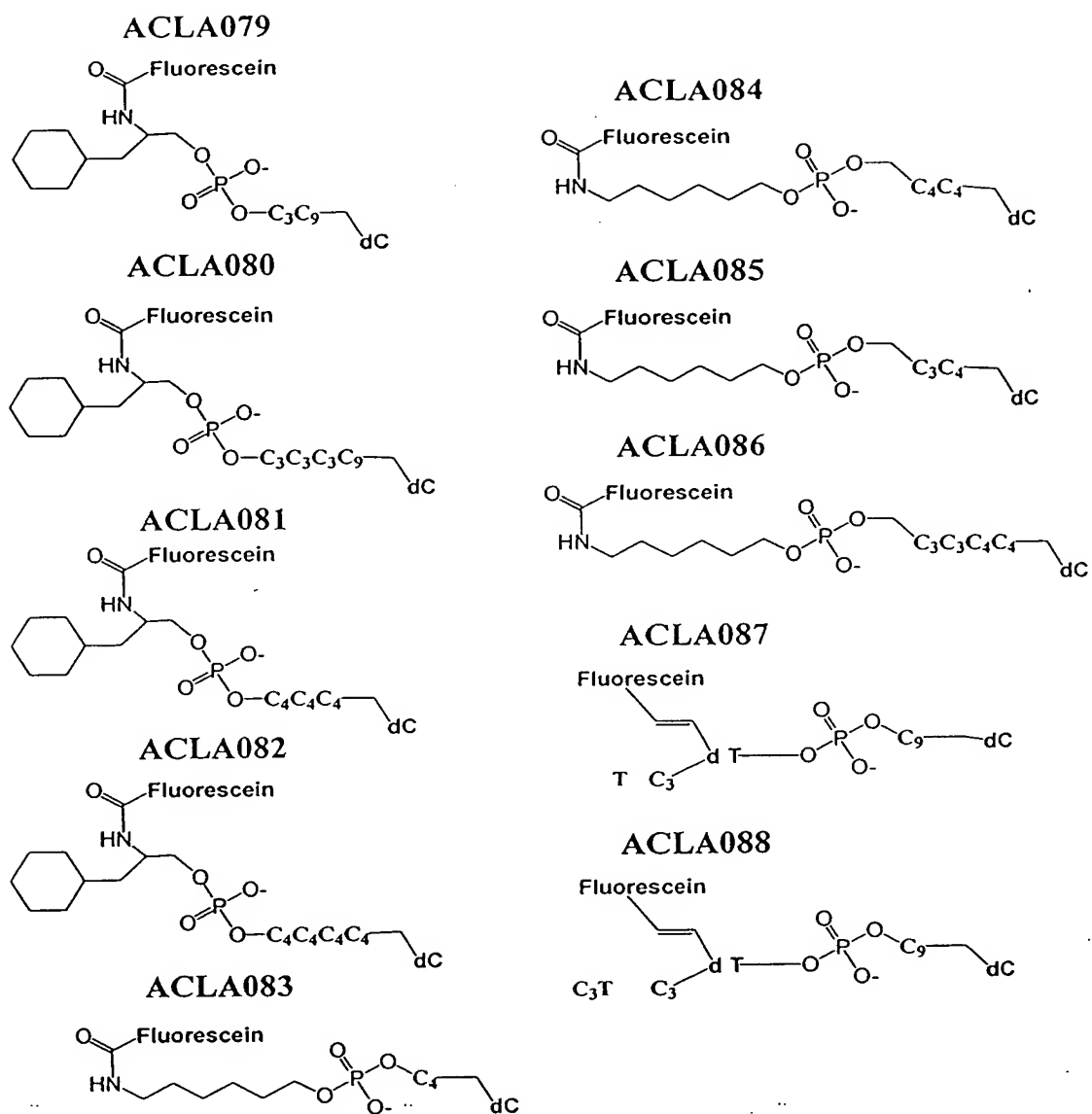
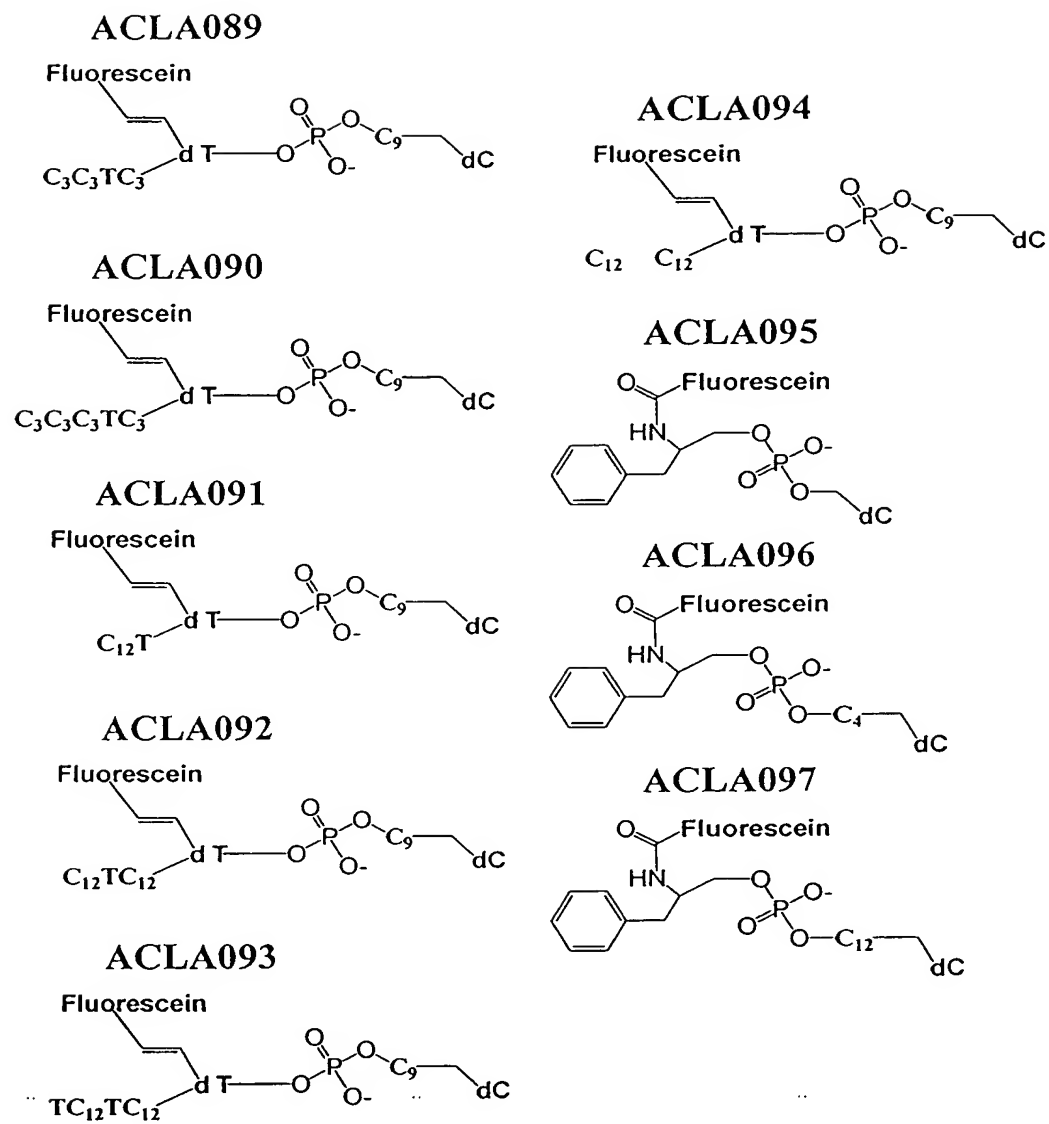


Fig. 9H

**Fig. 9I**

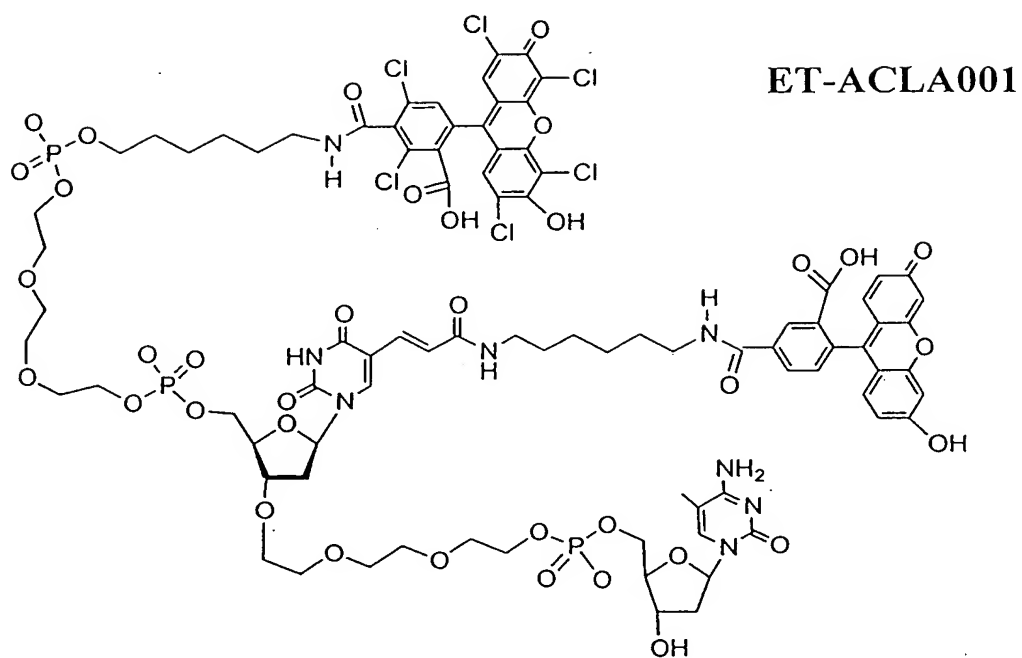


Fig. 9J

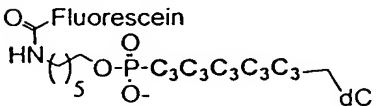
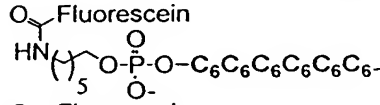
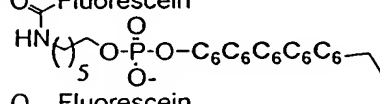
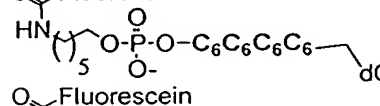
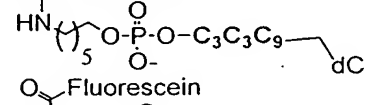
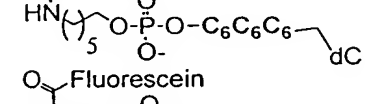
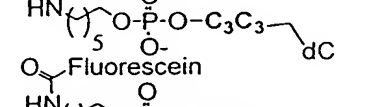
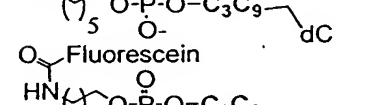
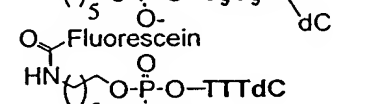
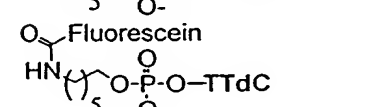
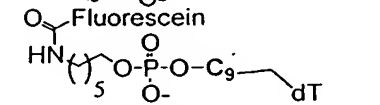
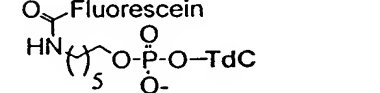

e-tag Reporter	Charge	Elution Time, min
	-8	12.1*
	-9	12.7
	-8	12.8
	-7	13.1
	-6	13.0
	-6	13.4
	-5	12.8*
	-5	13.2*
	-5	14.8
	-6	17.3
	-5	17.0
	-4	15.2*
	-4	16.5

Fig. 10

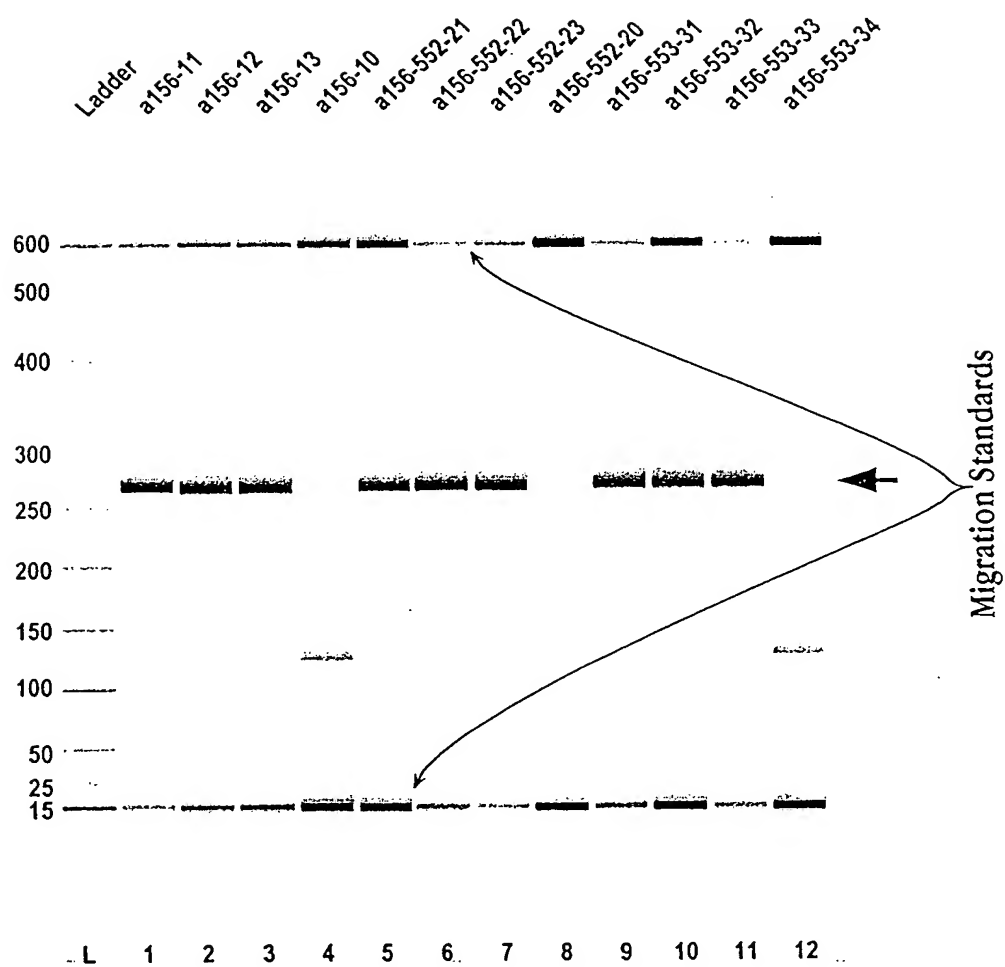
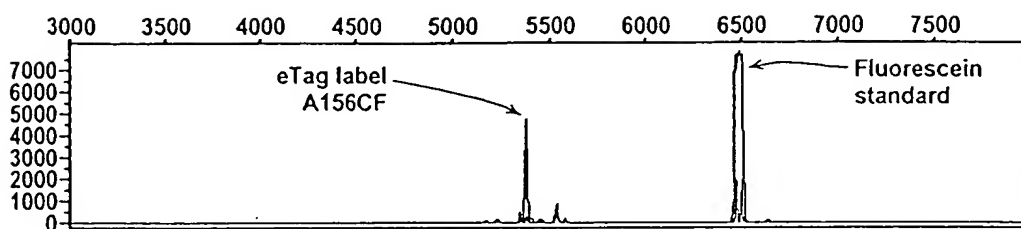
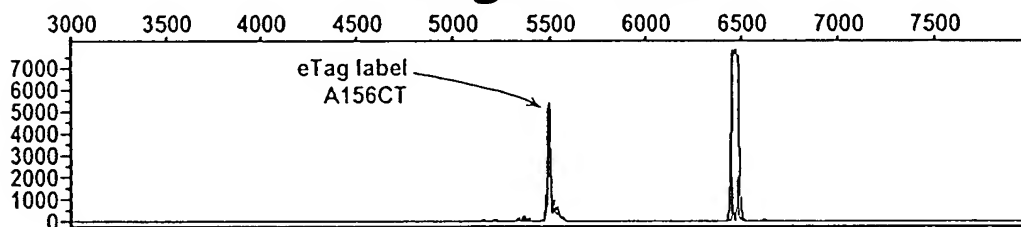
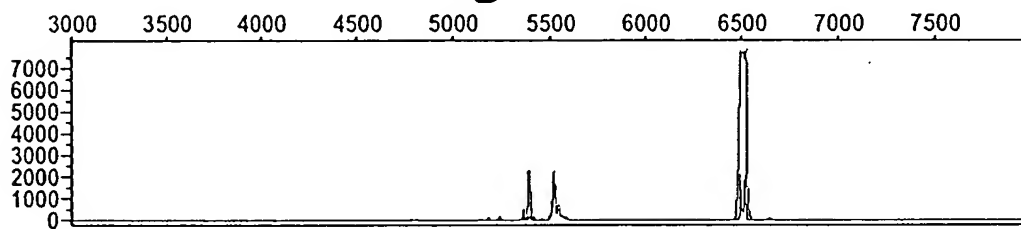
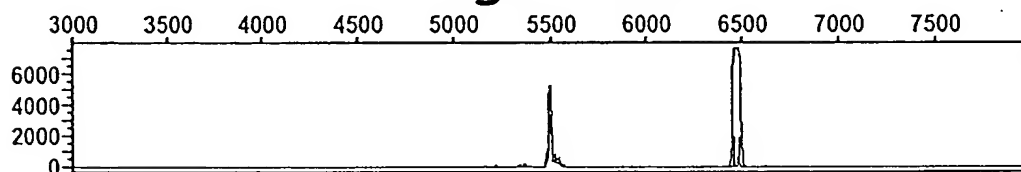
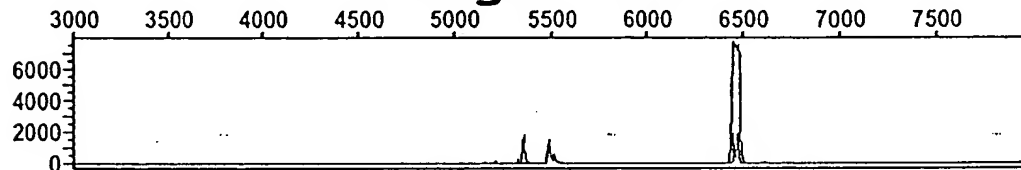
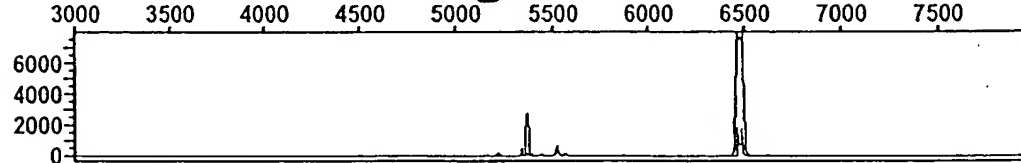
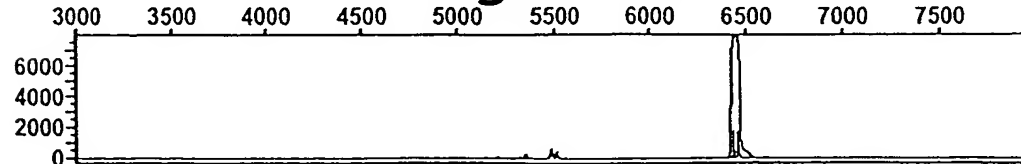
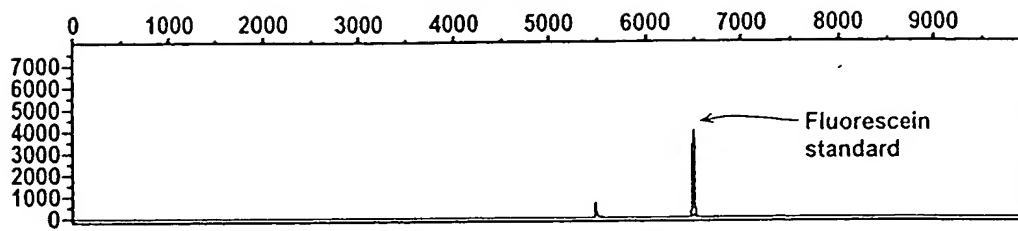


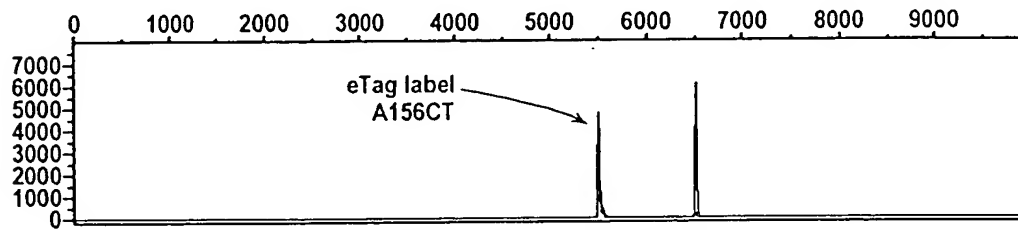
Fig. 11

**Fig. 12A****Fig. 12B****Fig. 12C****Fig. 12D****Fig. 12E****Fig. 12F****Fig. 12G**

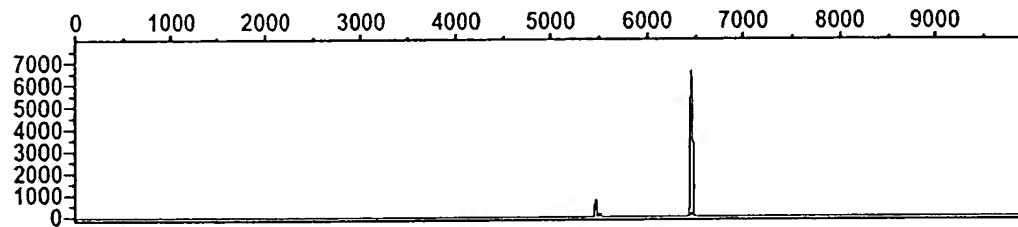
23/24



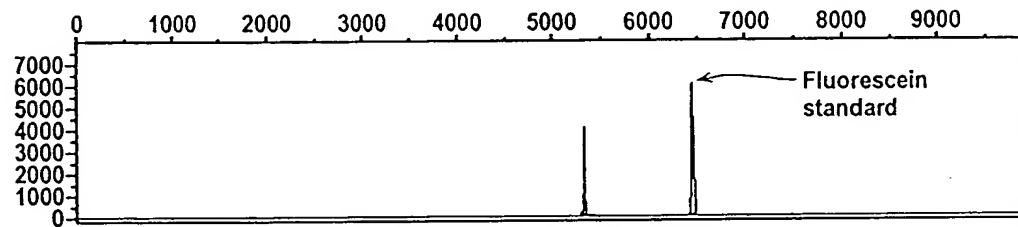
**Fig. 13A**



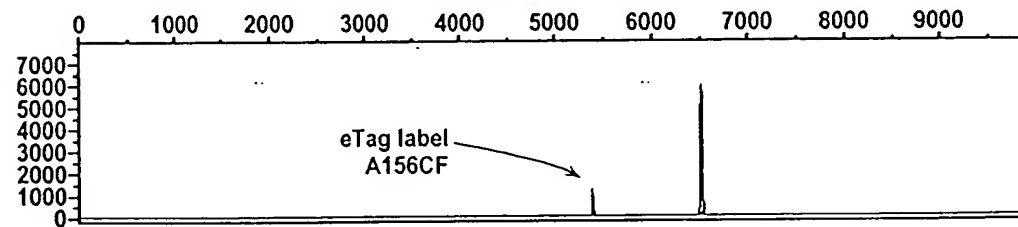
**Fig. 13B**



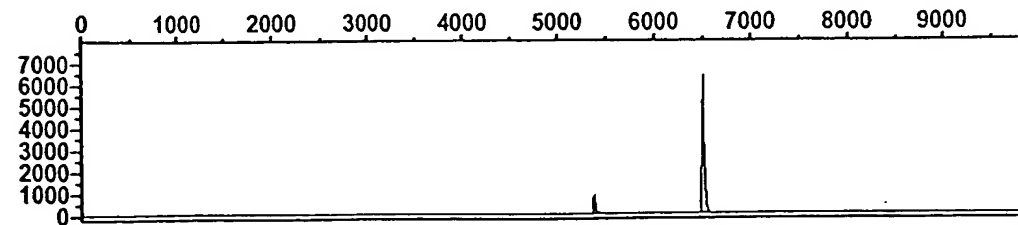
**Fig. 13C**



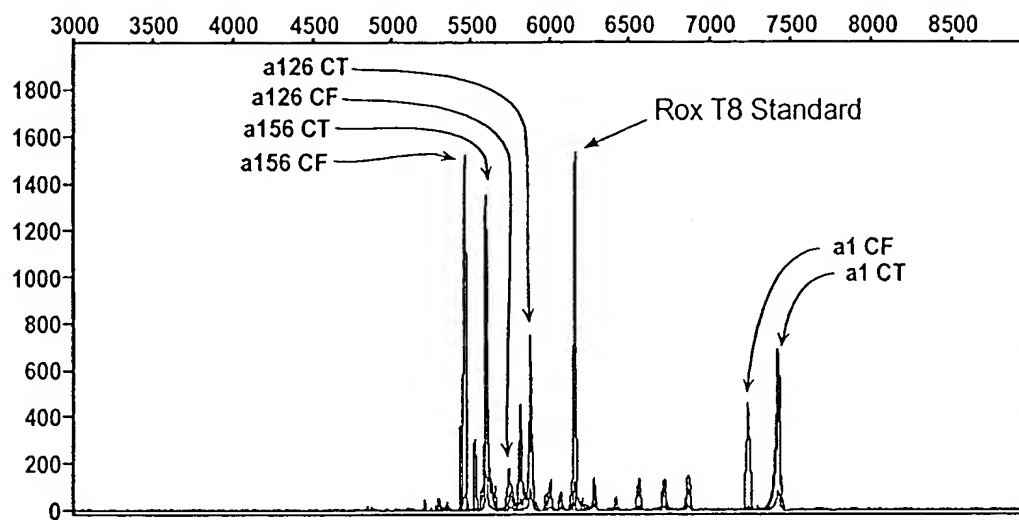
**Fig. 13D**



**Fig. 13E**



**Fig. 13F**

**Fig. 14**